

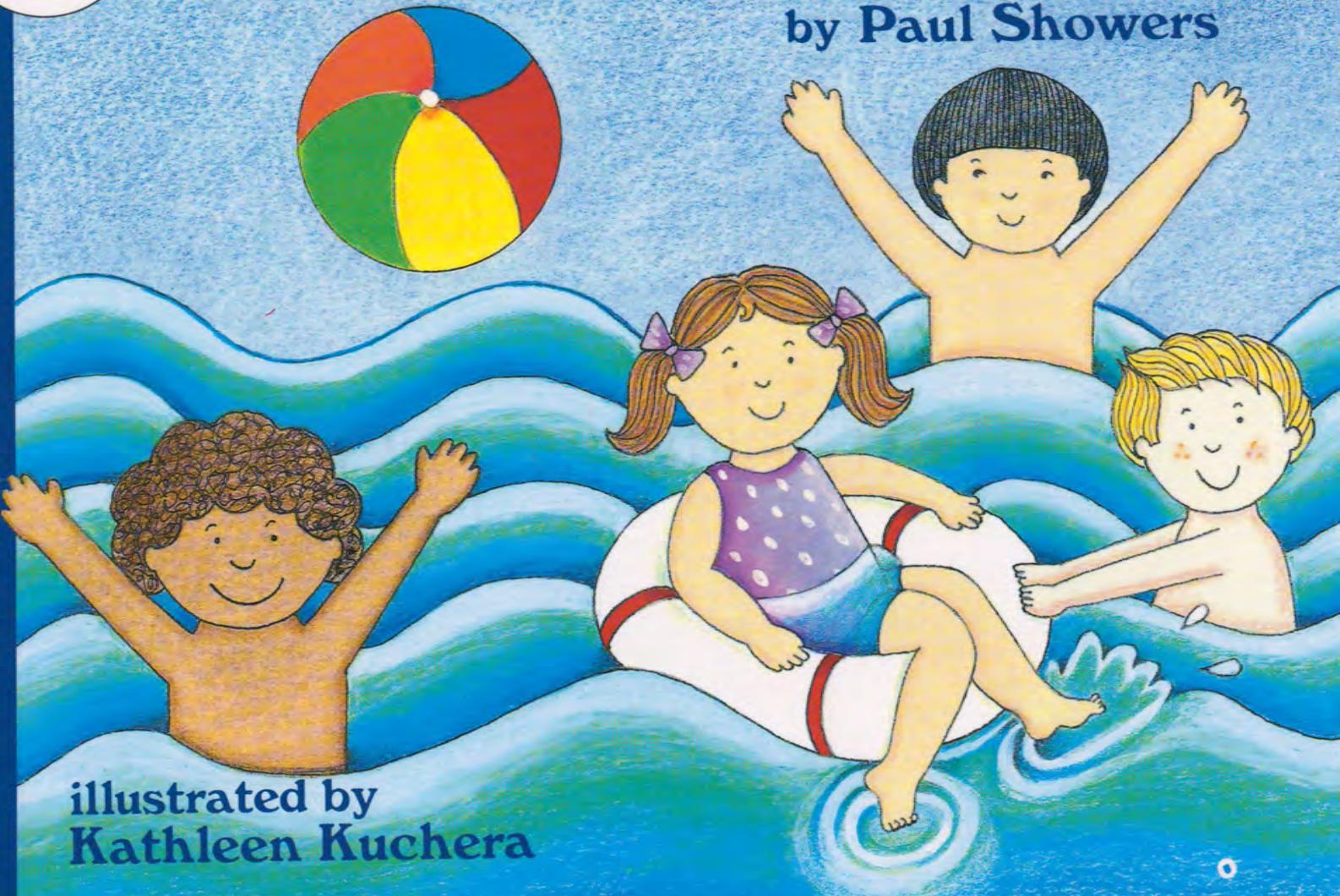
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STAGE

# Your Skin and Mine

by Paul Showers

LET'S-READ-AND-FIND-OUT SCIENCE®



illustrated by  
Kathleen Kuchera

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This Is a Let's-Read-and-Find-Out Science Book®

REVISED EDITION

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by Paul Showers • illustrated by Kathleen Kuchera



 HarperCollinsPublishers

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The *Let's-Read-and-Find-Out Science* book series was originated by Dr. Franklyn M. Branley, Astronomer Emeritus and former Chairman of the American Museum-Hayden Planetarium, and was formerly co-edited by him and Dr. Roma Gans, Professor Emeritus of Childhood Education, Teachers College, Columbia University. Text and illustrations for each of the books in the series are checked for accuracy by an expert in the relevant field. For more information about *Let's-Read-and-Find-Out Science* books, write to HarperCollins Children's Books, 10 East 53rd Street, New York, NY 10022.

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Your Skin and Mine

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The illustrations for YOUR SKIN AND MINE were prepared on D'Arches cover stock with watercolor, pencil, and ink.

Mary's skin is light brown. So is Henry's. Mark's skin is dark brown. My skin is white with freckles.

Mary and Henry and Mark are in my class at school.



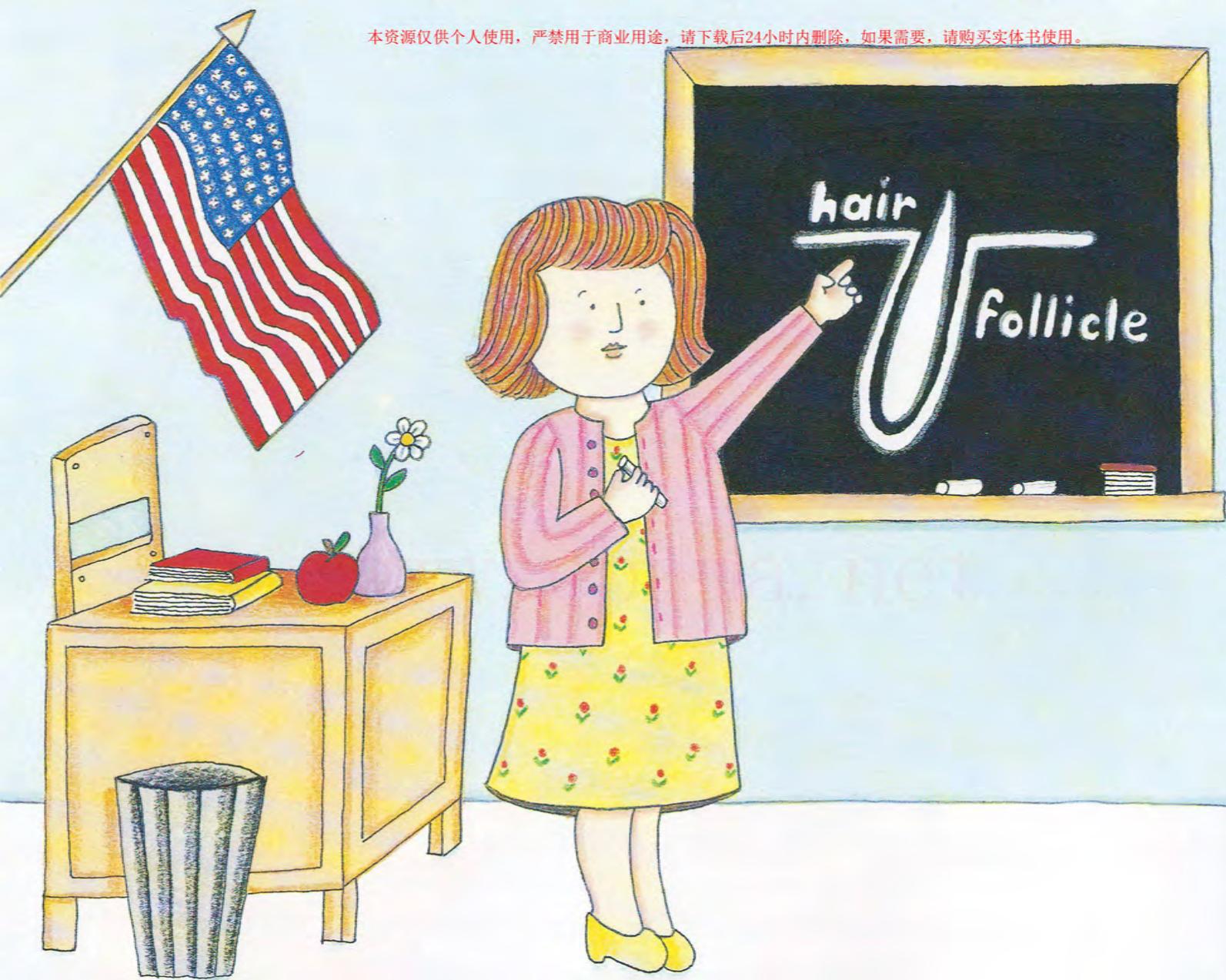


The other day our teacher passed out some magnifying glasses. Mary and Mark and Henry and I took turns looking at our skin under a magnifying glass. You can do the same thing.

Hair is part of your skin. With a magnifying glass you can look at the hair that grows out of your skin. Short hairs grow on your arms and legs. Long hairs grow on your head. Each hair grows out of a little hole called a follicle.



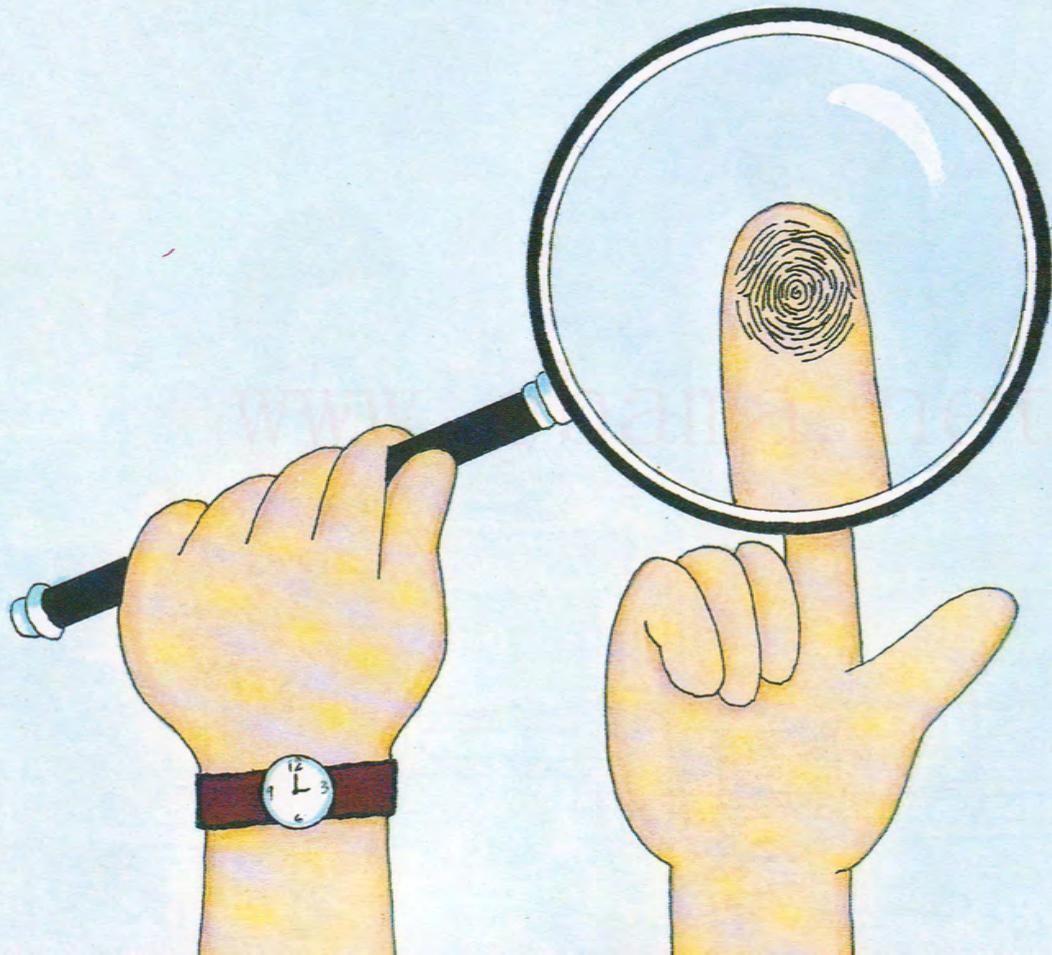
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A follicle is a kind of tiny pocket. The hair grows up from the bottom of the follicle. It sticks out of the follicle the way a flower sticks out of a vase. A follicle has oil in it. The oil keeps the hair soft and shiny. It oozes out of the follicle and helps keep the skin from getting too dry.



Look at your fingertips under the magnifying glass. You can see loops and lines. They are ridges in your skin. You can make prints of the ridges on your fingertips.





Rub your fingers in some fingerpaint. Press the tips down on a piece of white paper. Lift your hand carefully. Your fingerprints show loops and lines. You can see them better under a magnifying glass.



This is one of Mary's fingerprints under the magnifying glass.

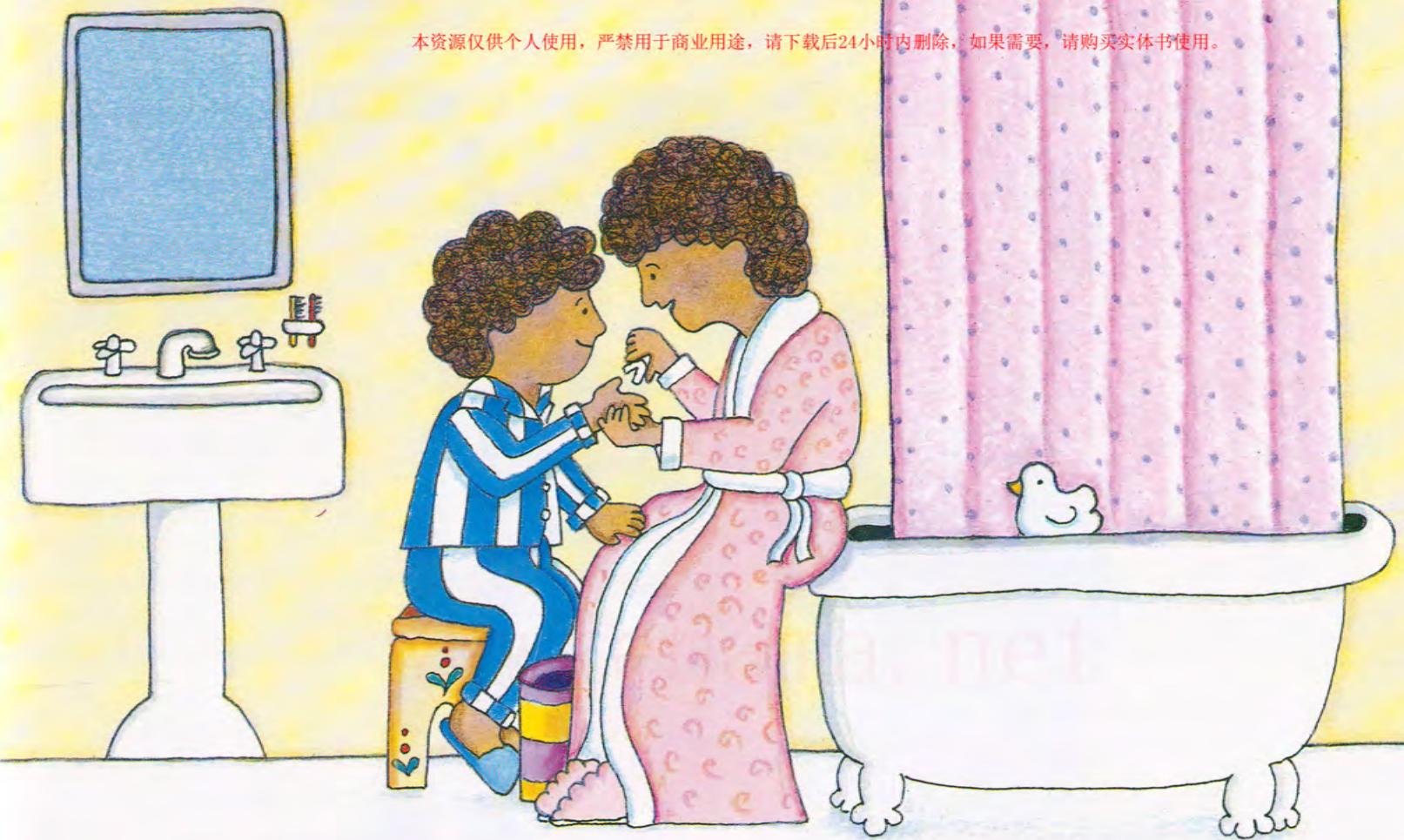


This is Mark's fingerprint.



This is Henry's.

Everybody's fingerprints are different.



Fingernails and toenails are part of your skin. They protect the tips of your fingers and toes. They are like your hair, because they keep growing all the time.

When you cut your hair, you don't feel anything. When you cut your nails, you don't feel anything either.





The rest of your skin has feeling. You can test this with a little game. It goes like this.

One of us is blindfolded. Then the rest of us try to touch him so gently he can't feel it.

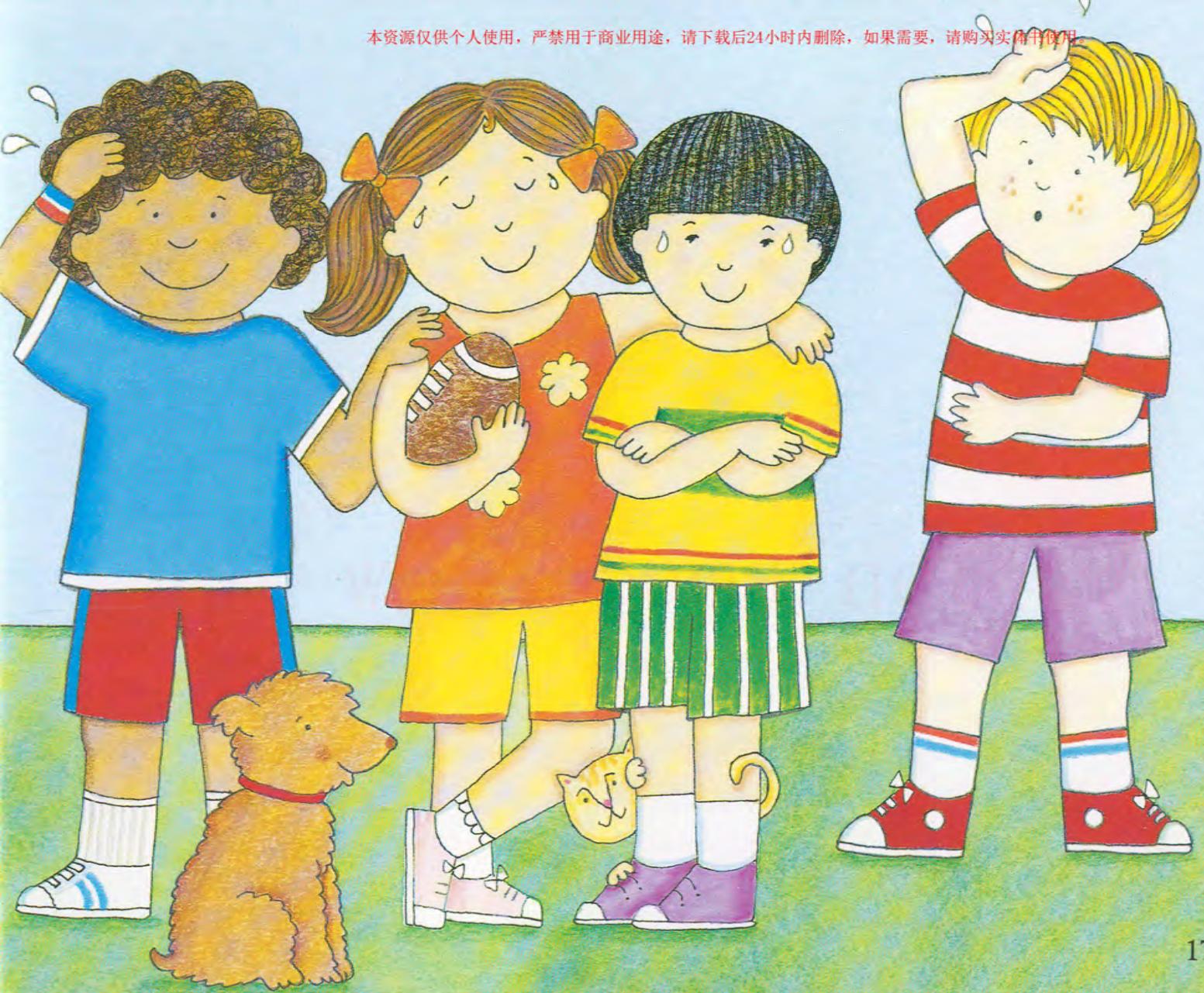
We touch him gently on his cheek—his wrist—his leg. We touch him with a paintbrush—and a feather. It is hard to fool him. He can feel even a very light touch on his skin.

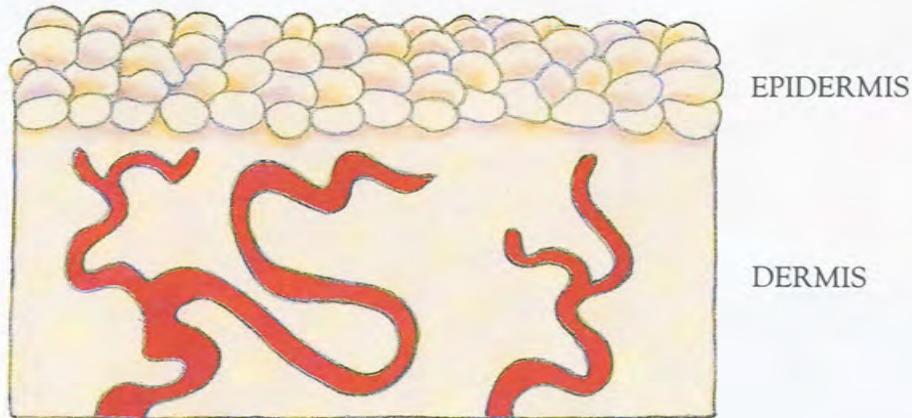


Your skin helps you to keep cool. On a hot day you become sweaty. Sweat is water that comes from inside your body. Your skin lets it out through tiny holes called pores. As the sweat dries, your skin becomes cooler.

Most of the pores in your skin are smaller than hair follicles. You cannot see the pores, even with a magnifying glass. But you can see the drops of sweat that come out of them.

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Your skin has two layers. The inside layer is called the dermis. There is blood in the dermis. The outside layer is called the epidermis. There is no blood in the epidermis.

The epidermis keeps rubbing off a little bit at a time. When you rub yourself hard with a towel, you often rub off a bit of your epidermis. It comes off in little pieces, all rolled up. When these little pieces of epidermis flake off, there is always more epidermis underneath.



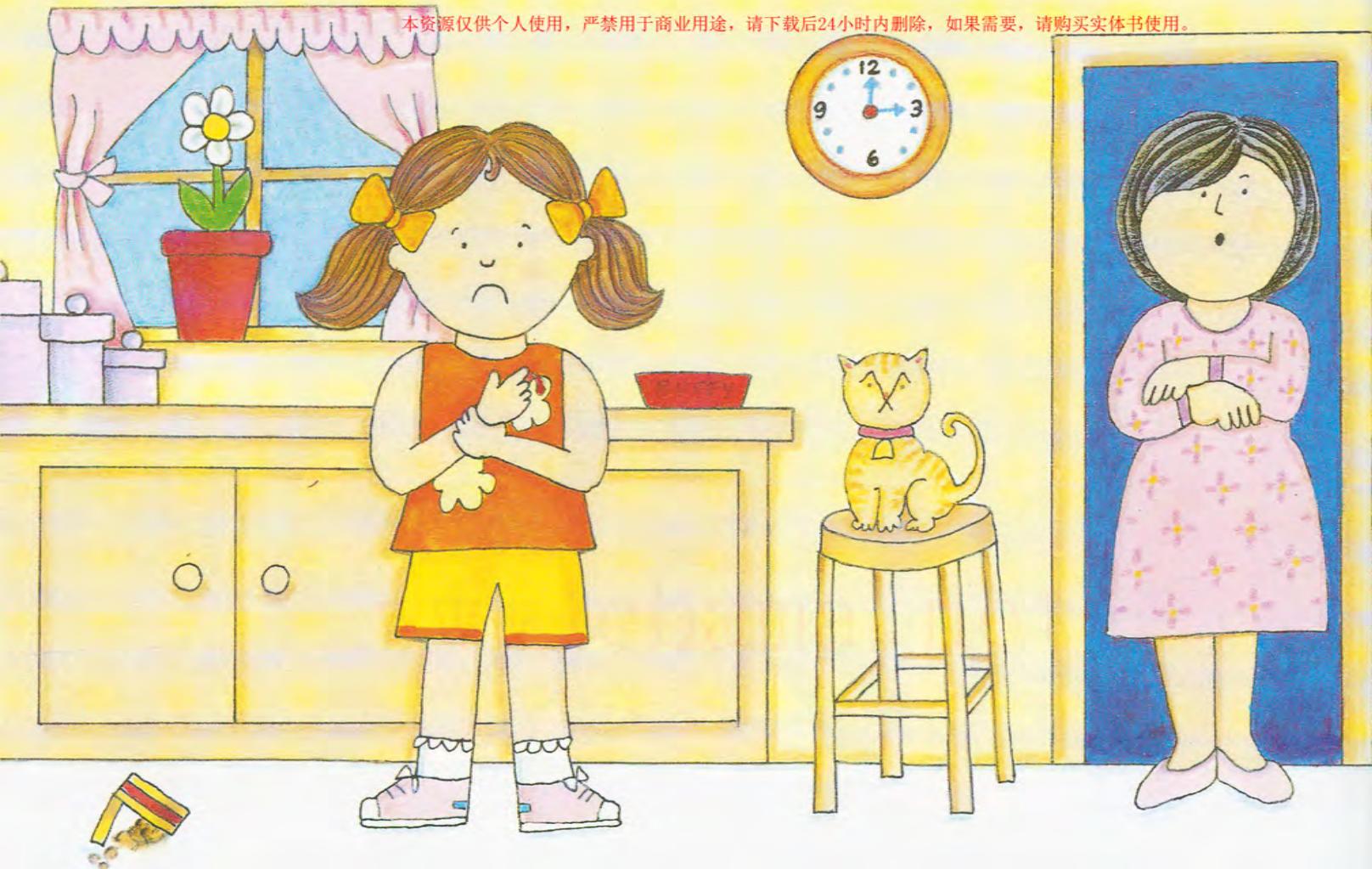
Sometimes you rub off more epidermis than you want to. The other day we were climbing trees. I slid down too fast and skinned my leg. I scraped off a piece of epidermis. Part of it was wrinkled up at one side of the scraped place.

I could see the dermis layer of my skin. It was pink. It stung and smarted, but it didn't bleed. A clear, sticky fluid oozed out of the dermis until it covered all of the scraped part. That made the dermis stop smarting, and we went on playing.





In a half hour, the sticky fluid had dried and made a crust, which is called a scab. My father says a scab is like a bandage. It keeps germs out until new epidermis can grow. Then the scab falls off.



Yesterday Mary cut her finger when she opened a can of pet food for her cat. The cut went through the epidermis and into the dermis. Blood came out of the cut.

Her mother washed Mary's hand with soap and water. Then she put a bandage over the cut. That was to help stop the bleeding and to keep germs out.

Your body is all wrapped up in skin. It covers your body from the top of your head to the soles of your feet. Your skin helps to keep germs and dirt out of your body.



Skin also protects the body from the sun. It does this by making grains of color called melanin. Melanin grains are brown. They are very tiny. They are so tiny you can't even see one of them under a magnifying glass. There are millions of melanin grains in the skin. They are like a screen. They protect the body from the burning rays of sunlight.

Everybody's skin makes melanin. Some skin makes a lot of melanin. Other skin doesn't make very much. Mark's skin makes a lot of melanin. Henry's skin and Mary's skin do not make as much melanin as Mark's.

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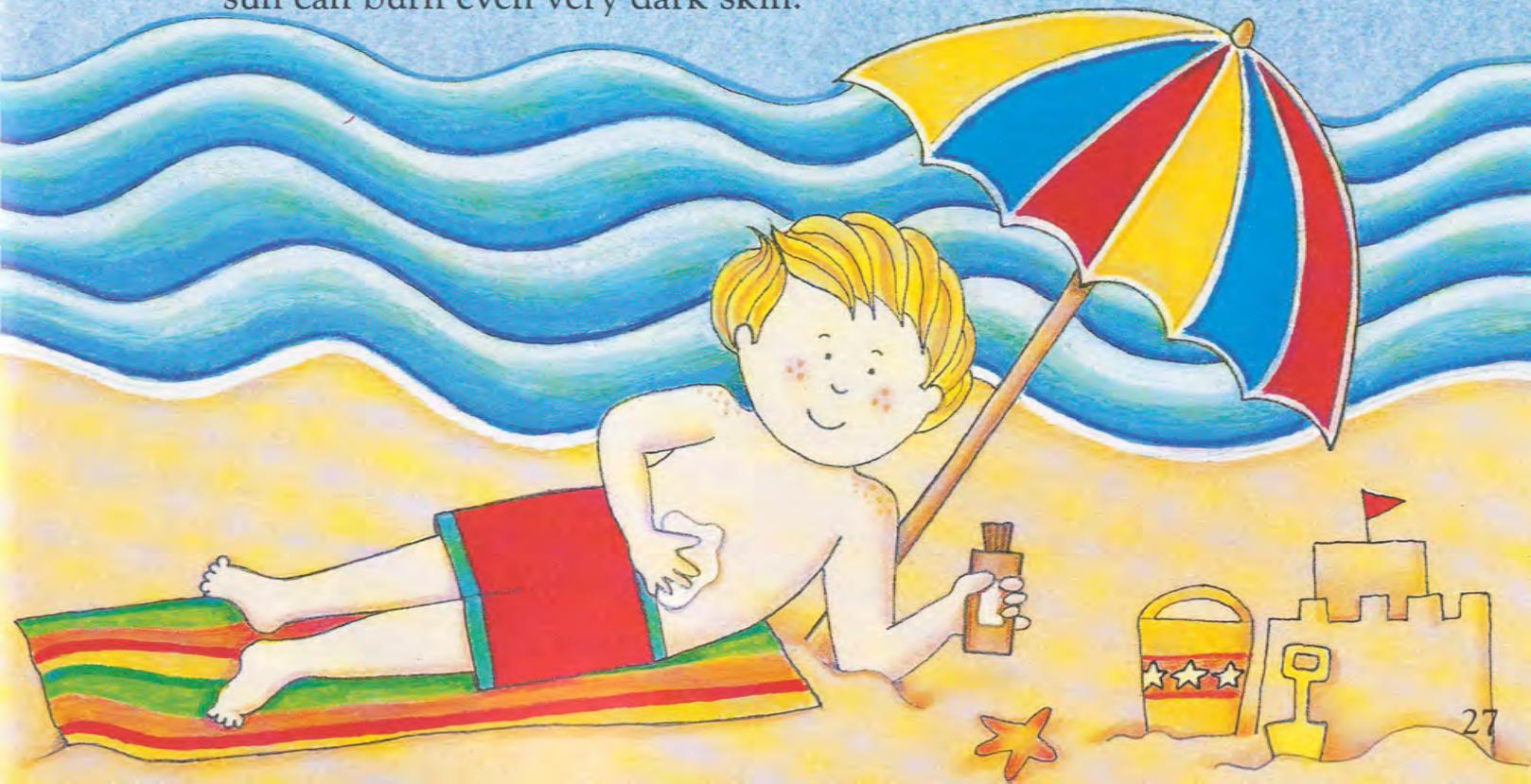




When the sun is very bright, the skin makes more melanin to screen out the burning light. That is why your skin gets darker when you play outside in the summer.

My skin makes very little melanin. Some of it is gathered in spots. These are my freckles. In summer my skin does not make enough melanin to screen out the sun's burning rays. I have to rub a sunscreen lotion on my skin. If I don't, I can get a painful sunburn.

Mary, Henry, and Mark will also get sunburns if they don't wear a sunscreen. Their skin won't burn as fast as mine, but the sun can burn even very dark skin.



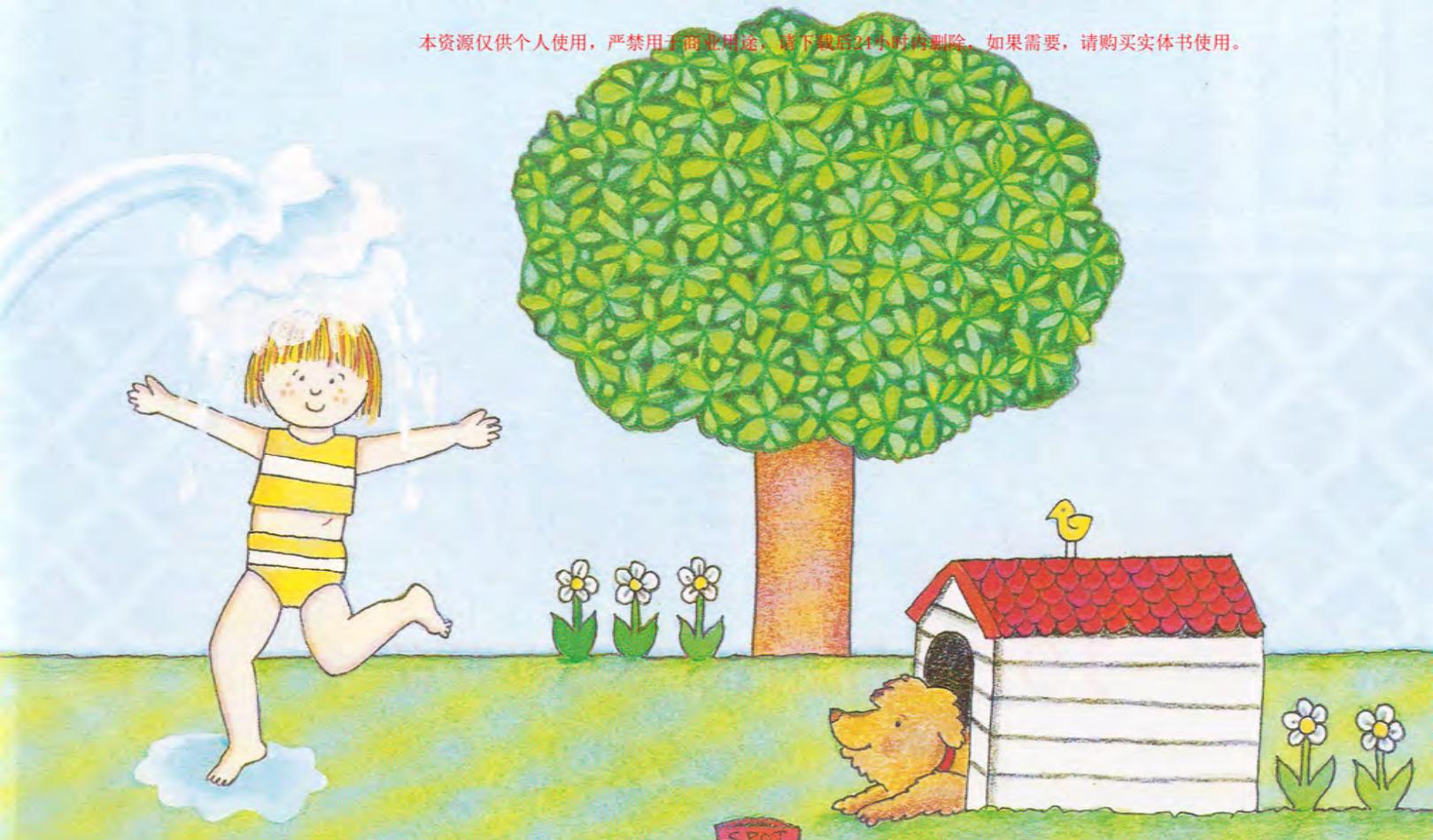




Skin is easy to keep clean. It is easier to clean than cloth or almost anything. Yesterday my sister and I helped Mother clean up the attic. Mother made us wear our bathing suits. The attic was full of dust and cobwebs. We got sweaty and very dirty.

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When we finished, we soaped ourselves and turned the hose on each other. In two minutes we were clean again. Mother said it was easier than washing our dirty clothes.



Mother made us cold lemonade. We sat on the steps. The breeze blew on our wet skin. We were cool, inside and out.

**Paul Showers**, a retired newspaperman, is the author of nearly two dozen books for children, including twenty for the Let's-Read-and-Find-Out Science series. Among these are such favorites as WHERE DOES THE GARBAGE GO? and WHAT HAPPENS TO A HAMBURGER.

Mr. Showers has worked on the *Detroit Free Press*, the *New York Herald Tribune*, and, for thirty years, *The Sunday New York Times*. He was born in Sunnyside, Washington, and was graduated from the University of Michigan. He now lives in Palo Alto, California.

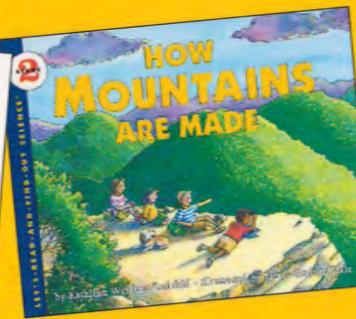
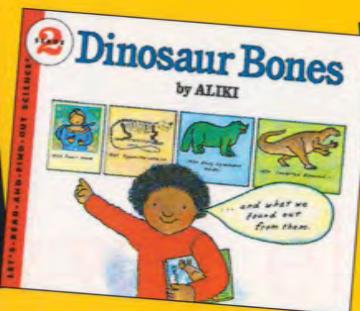
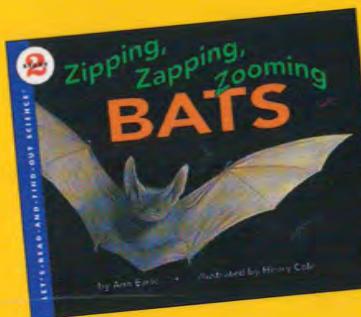
**Kathleen Kuchera** studied art at The Cooper Union for the Advancement of Science and Art. She paints decorative items and shows her artwork at Kimberly Gallery in New York City.

Ms. Kuchera was born in Cleveland, Ohio, and now lives in New York.

# What covers you from head to toe?

Your skin! From the top of your head to the soles of your feet, you are all wrapped up in skin. Your skin protects your body from germs and dirt. But it is also very sensitive and sometimes needs protection itself. Read and find out about your amazing, strong, and delicate skin.

Here are some other Let's-Read-and-Find-Out Science books you might enjoy:



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